

Results of Directional Survey

API number:	30-025-39382			
OGRID:		Operator:	CIMAREX ENERGY CO. OF COLORADO	
		Property:	MALLON 35 FEDERAL	# 4H

surface	ULSTR:	M	35	T 19S	R 34E
				660 FSL	660 FWL

BH Loc	ULSTR:	P	35	T 19S	R 34E
14811	MD	10889.4	TVD	823 FSL	4757 FWL
					523 FEL

Top Perf/OH	ULSTR:	M	35	T 19S	R 34E
11001	MD	10870.0	TVD	629 FSL	956 FWL

Bot Perf/OH	ULSTR:	O	35	T 19S	R 34E
13950	MD	10870.4	TVD	785 FSL	3897 FWL
					1383 FEL

	MD	N/S	E/W	VD
	10988	-31.30	283.84	10866.79
TOP PERFS/OH	11001	-30.91	296.43	10870.00
	11020	-30.35	314.83	10874.69
	13878	122.22	3165.32	10869.90
BOT PERFS/OH	13950	125.11	3237.26	10870.41
	13973	126.03	3260.24	10870.57

NEXT TO LAST	14734	158.98	4020.28	10886.00
LAST READING	14756	160.01	4042.23	10886.98
TD	14811	162.59	4097.11	10889.43

Surface Location	660	FS	660	FW
Projected BHL	823	FS	4757	FW
Location of				
Top Perfs/OH	629	FS	956	FW
Bottom Perfs/OH	785	FS	3897	FW

SUMMARY of Subsurface Locations

Surface Location	M-35-19S-34E	660	FS	660	FW	Vert. Depth
Top Perfs/OH	M-35-19S-34E	629	FS	956	FW	10870.00
Bottom Perfs/OH	O-35-19S-34E	785	FS	3897	FW	10870.41
Projected TD	P-35-19S-34E	823	FS	4757	FW	10889.43